INSTITUTUL DE MATEMATICA "SIMION STOILOW" AL ACADEMIEI ROMANE

Conferinta lunara

Maps with values into manifolds

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la sediul IMAR, amfiteatrul "Miron Nicolescu", parter

Abstract: Phase transitions models describe ``coexistence'' in a variety of physical situations, the most simple one being the coexistence of different phases (states) of a single component. I will describe some second order phase transition models, in particular arising from superconductivity and nematics, and some of the mathematical questions raised by their analysis. I will also mention some related problems in geometry (minimal spheres, regularity of harmonic maps).